

PUMP MOTOR CONTROL FOR WATER AND WASTEWATER OPERATORS

Course Agenda

Day 1

8:00 - 8:30	Welcome and Registration Overview of Course
8:30 – 9:00	Operator Discussion
9:00 – 10:00	Section 1 Electrical Fundamentals
10:00 – 10:15	Break
10:15 – 11:45	<i>Meters Exercises</i>
11:45 – 1:00	Lunch
1:00 - 2:00	Section 2 Electric Motors
2:00 – 3:00	Motors Demonstration and Capacitor checks
3:00 – 3:15	Break
3:15 - 4:30	<i>Motor Testing Exercise</i>
4:30 - 5:00	Single Phase Control Box Demo
5:00	Adjourn

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Day 2

8:00 - 9:00	Section 3 Motor Power and Protection Systems
9:00 – 10:00	<i>Switch and Float Exercise</i> <i>Motor Starter Exercise</i>
10:00 – 10:15	Break
10:15 – 11:00	Section 4 Electrical Diagrams and Pump-down Panel
11:00 – 12:00	<i>Pump Down Control Panel Exercise</i>
12:00 – 1:00	Lunch
1:00 - 2:00	Section 5 Control Sensing Devices
2:00 – 3:00	<i>Control Sensing Exercise</i>
3:00 – 3:15	Break
3:15 – 3:45	Section 6 Electrical Diagrams and Pump-up Panel
3:45 – 5:00	<i>Pump-up Panel Exercise</i>
5:00	Adjourn

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Day 3

8:00 - 9:00	Section 7 Programmable Controls
9:00 – 10:00	<i>VFD/PLC Programming Exercise</i>
10:00 – 10:15	Break
10:15 – 10:45	Record Keeping
10:45 – 11:15	Electrical Safety Considerations
10:45 – 12:00	Principles of Troubleshooting Panel Troubleshooting Demo PLC Troubleshooting Demo
12:00 – 1:00	Lunch
1:00 - 3:00	<i>Panel and PLC Troubleshooting Exercise</i>
3:00 – 3:15	Break
3:15 – 4:00	<i>Close Out</i>
4:00	Adjourn